

Table S1. Demographic variables among individuals included in the analytic sample and those excluded due to missing data.

	All		Included		Excluded	
	N	Col%	N	Col%	N	Col%
All	84,898	100	80,942	100	3,956	100
Household food insecurity status						
Missing	653	0.8	0	.	653	16.5
Food secure	74,151	87.3	71,254	88	2,897	73.2
Marginal	3,135	3.7	3,000	3.7	135	3.4
Moderate	4,401	5.2	4,214	5.2	187	4.7
Severe	2,558	3	2,474	3.1	84	2.1
Survey cycle						
2005	22,085	26	21,315	26.3	770	19.5
2007-08	22,306	26.3	21,418	26.5	888	22.4
2009-10	20,843	24.6	19,856	24.5	987	24.9
2011-12	19,664	23.2	18,353	22.7	1,311	33.1
Sex						
Male	39,246	46.2	37,474	46.3	1,772	44.8
Female	45,652	53.8	43,468	53.7	2,184	55.2
Respondent: Education						
Missing	283	0.3	0	.	283	7.2
< Secondary grad	9,379	11	8,774	10.8	605	15.3
Secondary grad	16,940	20	15,987	19.8	953	24.1
Some post-secondary	6,486	7.6	6,229	7.7	257	6.5
Post-secondary grad	51,810	61	49,952	61.7	1,858	47
Household: Home ownership						
Missing	118	0.1	0	.	118	3
No	18,189	21.4	17,373	21.5	816	20.6
Yes	66,591	78.4	63,569	78.5	3,022	76.4
Household: Main income source						
Missing	2,634	3.1	0	.	2,634	66.6
Wages, salaries or self employed	67,755	79.8	66,725	82.4	1,030	26
Seniors income, dividends, interest	8,623	10.2	8,507	10.5	116	2.9
Employment insurance, workers compensation	1,137	1.3	1,107	1.4	30	0.8
Social assistance	2,766	3.3	2,674	3.3	92	2.3
Other or none	1,983	2.3	1,929	2.4	54	1.4
Respondent: Living arrangements						
Missing	396	0.5	0	.	396	10
Unattached, living alone	17,285	20.4	16,722	20.7	563	14.2

Unattached, living w others	2,763	3.3	2,534	3.1	229	5.8
Couple, no children	24,238	28.5	23,395	28.9	843	21.3
Couple, children	29,366	34.6	28,085	34.7	1,281	32.4
Lone parent	6,608	7.8	6,219	7.7	389	9.8
Other	4,242	5	3,987	4.9	255	6.4
Neighbourhood income quintile						
Missing	166	0.2	0	.	166	4.2
1	16,214	19.1	15,408	19	806	20.4
2	16,840	19.8	16,080	19.9	760	19.2
3	17,390	20.5	16,617	20.5	773	19.5
4	17,447	20.6	16,700	20.6	747	18.9
5	16,841	19.8	16,137	19.9	704	17.8
Rural place of residence						
No	66,808	78.7	63,839	78.9	2,969	75.1
Yes	18,090	21.3	17,103	21.1	987	24.9
Immigrant						
Missing	153	0.2	0	.	153	3.9
No	70,454	83	67,355	83.2	3,099	78.3
Yes	14,291	16.8	13,587	16.8	704	17.8
Eligible for OHIP 4 years pre interview						
Yes	84,898	100	80,942	100	3,956	100

Table S2. Health care utilization in previous and concurrent year of food insecurity status among individuals included and excluded (due to missing data) (unadjusted proportions)						
	All		Include		Exclud	
	N	Col%	N	Col%	N	Col%
All	84,898	100	80,942	100	3,956	100
Concurrent utilization						
Any hospitalization, ED, Psychiatrist or GP visit in past 12 months	14,666	17.3	13,938	17.2	728	18.4
Hospitalization in past 12 months	349	0.4	319	0.4	30	0.8
Emergency department visit in past 12 months	798	0.9	744	0.9	54	1.4
Outpatient psychiatry visit in past 12 months	2,713	3.2	2,554	3.2	159	4
Primary care visit in past 12 months	13,048	15.4	12,407	15.3	641	16.2
Previous utilization						
Any hospitalization, emergency department, psychiatrist or primary	14,661	17.3	13,904	17.2	757	19.1

care visit in first year prior to 12 month measure						
Any hospitalization, emergency department, psychiatrist or primary care visit in second year prior to 12 month measure	14,451	17	13,778	17	673	17
Any hospitalization, emergency department, psychiatrist or primary care visit in third year prior to 12 month measure	14,555	17.1	13,822	17.1	733	18.5

Table S3. Adjusted odds of any health care utilization for mental health reasons in past 12 months

	Adjusting for socio-demographic variables			Adjusting for socio-demographic variables and prior mental health care utilization		
	Point Estimate	95% Wald Confidence Limits		Point Estimate	95% Wald Confidence Limits	
Food insecurity status, past 12 months						
Food secure	1.00			1.00		
Marginal	1.26	1.14	1.38	1.15	1.04	1.29
Moderate	1.59	1.47	1.71	1.30	1.19	1.42
Severe	2.14	1.95	2.35	1.50	1.35	1.68
Age	1.01	1.00	1.01	1.00	1.00	1.00
Sex						
Male	1.00			1.00		
Female	1.80	1.73	1.88	1.44	1.38	1.50
Education level						
< Secondary school graduation	0.96	0.90	1.02	1.00	0.93	1.07
Secondary school graduation	0.89	0.84	0.93	0.92	0.87	0.98
Some post-secondary	0.93	0.87	1.00	0.96	0.89	1.05
Post-secondary graduation	1.00			1.00		
Homeowner						
Yes	1.00			1.00		
No	1.10	1.04	1.16	1.03	0.97	1.09

No. of children < 18 years in household	0.93	0.90	0.96	0.95	0.92	0.99
No. of adults in household	0.88	0.84	0.91	0.94	0.90	0.98
Neighbourhood income quintile						
1 (lowest)	1.00			1.00		
2	1.24	1.16	1.32	1.03	0.96	1.10
3	1.71	1.49	1.96	0.96	0.90	1.03
4	2.24	2.04	2.46	1.02	0.95	1.09
5	1.81	1.63	2.01	1.03	0.96	1.10
Living arrangement						
Unattached, living alone	1.00			1.00		
Unattached, living w others	1.14	1.02	1.29	1.09	0.95	1.25
Couple, no children	0.78	0.73	0.84	0.89	0.81	0.95
Couple, children	0.97	0.87	1.08	0.98	0.87	1.10
Lone parent	1.14	1.04	1.24	1.08	0.97	1.19
Other	1.38	1.19	1.60	1.25	1.06	1.48
Main source of household income						
Employment	1.00			1.00		
Seniors income, dividends, interest	1.24	1.16	1.32	1.09	1.01	1.17
Employment insurance, workers compensation	1.71	1.49	1.96	1.34	1.14	1.57
Social assistance	2.24	2.04	2.46	1.55	1.38	1.73
Other or none	1.81	1.63	2.01	1.29	1.14	1.46
Immigrant						
No	1.00			1.00		
Yes	0.89	0.85	0.94	0.95	0.90	1.01

Residence in rural area						
yes	1.00			1.00		
no	1.21	1.15	1.27	1.13	1.07	1.19
Survey cycle						
2005	1.00			1.00		
2007-08	0.99	0.94	1.04	0.99	0.94	1.05
2009-10	0.89	0.84	0.93	0.92	0.86	0.97
2011-12	0.84	0.80	0.89	0.88	0.83	0.94
Mental health care utilization during the 3rd year prior				2.26	2.14	2.38
Mental health care utilization during the 2nd year prior				2.62	2.49	2.76
Mental health care utilization during the 1st year prior				5.21	4.96	5.46

Table S4. Adjusted odds of health care utilization in the concurrent year of food insecurity status by sex

	Females			Males		
	Point	95% Wald		Point	95% Wald	
	Estimate	Confidence Limits		Estimate	Confidence Limits	
Food insecurity status, past 12 months						
Food secure	1.00			1.00		
Marginal	1.21	1.06	1.38	1.05	0.87	1.27
Moderate	1.30	1.16	1.44	1.31	1.12	1.53
Severe	1.47	1.29	1.69	1.58	1.30	1.91
Age	1.00	1.00	1.00	1.00	1.00	1.01
Education level						
< Secondary school graduation	1.02	0.93	1.12	0.97	0.86	1.08
Secondary school graduation	0.91	0.84	0.97	0.97	0.88	1.06
Some post-secondary	1.00	0.90	1.10	0.91	0.79	1.04
Post-secondary graduation	1.00			1.00		
Homeowner						
Yes	1.00			1.00		
No	1.02	0.95	1.10	1.03	0.94	1.14
No. of children < 18 years old in the household	0.95	0.91	0.99	0.96	0.90	1.02
No. of adults in the household	0.92	0.87	0.97	0.97	0.90	1.05
Neighbourhood income quintile						
1 (lowest)	1.00			1.00		
2	1.04	0.95	1.13	1.01	0.90	1.12
3	0.99	0.91	1.08	0.92	0.82	1.03
4	1.01	0.92	1.10	1.03	0.92	1.15

5	1.05	0.96	1.15	1.00	0.89	1.12
Living arrangement						
Unattached, living alone	1.00			1.00		
Unattached, living w others	1.05	0.88	1.26	1.14	0.92	1.41
Couple, no children	0.88	0.80	0.97	0.87	0.76	0.98
Couple, children	1.00	0.86	1.16	0.94	0.77	1.15
Lone parent	1.04	0.92	1.17	1.18	0.98	1.41
Other	1.29	1.05	1.59	1.18	0.88	1.57
Main source of household income						
Employment	1.00			1.00		
Seniors income, dividends, interest	1.06	0.96	1.16	1.14	1.01	1.29
Employment insurance, workers compensation	1.27	1.02	1.57	1.41	1.10	1.80
Social assistance	1.51	1.32	1.74	1.57	1.30	1.89
Other or none	1.28	1.11	1.49	1.30	1.03	1.63
Recent immigrant						
No	1.00			1.00		
Yes	0.97	0.90	1.04	0.91	0.83	1.01
Residence in rural area						
yes	1.00			1.00		
no	1.15	1.08	1.23	1.09	1.00	1.20
Survey cycle						
2005	1.00			1.00		
2007-08	0.96	0.90	1.04	1.04	0.95	1.15
2009-10	0.89	0.82	0.95	0.98	0.88	1.08
2011-12	0.87	0.81	0.94	0.90	0.81	0.99
Mental health care utilization during the 3rd year prior	2.22	2.08	2.36	2.32	2.12	2.54

Mental health care utilization during the 2nd year prior	2.51	2.36	2.67	2.82	2.58	3.08
Mental health care utilization during the 1st year prior	4.77	4.50	5.06	6.09	5.61	6.61